

a base station for emanating [a] successive beacon [signal] signals to said intermittent power-on type mobile station and [communicating with] transmitting data to said intermittent power-on type mobile station by radio while said intermittent power-on type mobile station is [controlled] ready to receive data from said station as a result of control by the individual beacon signal from said base station;

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said base station [preferentially transmitting] being operable to transmit data to the intermittent power-on type mobile station [over] in preference to a normal mobile station [in] assuming a normally power-on state [when the] without any need to shorten an interval of occurrence of said beacon signal if data to be transmitted to said intermittent power-on type mobile station exists during said data receive-ready period of said intermittent power-on type mobile station [without any need to shorten an interval of occurrence of said beacon signal].

2. (Twice Amended) A radio communications system comprising:

an intermittent power-on type mobile station for shifting to a power-on state synchronously with a received timing of a beacon signal, with a fixed period of time after the beacon signal has been received being defined as a data receive-ready period; and

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a base station for emanating [a] successive beacon [signal] signals to said intermittent power-on type mobile station and [communicating with] transmitting data to said intermittent power-on type mobile station by radio while said intermittent power-on type mobile station is [controlled]

ready to receive data from said base station as a result of control by the individual beacon signal from said base station;

said base station [reporting] taking the initiative, if said data is to be transmitted continuously beyond said data receive-ready period of said intermittent power-on type mobile station, to originally report to said intermittent power-on mobile station, as time extension information, that data must be received beyond said data receive-ready period[, to said intermittent power-on type mobile station, when said data is transmitted continuously beyond said data receive-ready period of said intermittent power-on type mobile station];

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said intermittent power-on type mobile station [sustaining] being responsive to said time extension information from said base station to sustain its power-on state beyond said receive-ready period until all pieces of data transmitted continuously from said base station are received [when said intermittent power-on type mobile station has received said time extension information from said base station].

3. (Twice Amended) A radio communications system comprising:

an intermittent power-on type mobile station for shifting to a power-on state synchronously with a received timing of a beacon signal, with a fixed period of time after the beacon signal has been received being defined as a data receive-ready period; and

a base station for emanating [a] successive beacon [signal] signals to said intermittent power-on type mobile station and [communicating with] transmitting data to said intermittent power-on

type mobile station by radio while said intermittent power-on type mobile station is [controlled]
ready to receive data from said base station as a result of control by the individual beacon signal from
said base station;

 said base station [previously reporting] taking the initiative to originally report to said
intermittent power-on type mobile station of transmission information regarding data to be
transmitted to said intermittent power-on type station during the data receive-ready period [of said
intermittent power-on type mobile station, to said intermittent power-on type mobile station], and
also operable to transit [transmitting] said data within a predetermined period of time after [a
completion] the lapse of said data receive-ready period [when] if part of pieces of data included in
said transmission [data] information has been left untransmitted [cannot be transmitted] during said
data receive-ready period;

 said intermittent power-on type mobile station [sustaining] being operable to sustain its
power-on state when data [included] includes said transmission data previously reported from said
base station, and then operable to extend [extending] said data receive-ready period by said
predetermined period of time.

4. (Twice Amended) The radio communications system according to claim 3, wherein said
intermittent power-on type mobile station shifts to its [power supply turn-off] power-off state at the
time when all pieces of data included in said transmission information have been received within [a]
 said predetermined period of time [from a completion] after the lapse of said data receive-ready
period.

5. (Twice Amended) A base station [in] for a radio communications system [wherein] which accommodates an intermittent power-on type mobile station and a normal mobile station and in which said base station emanates [a] successive beacon [signal] signals to [an] the intermittent [powered-on] power-on type mobile station [at intervals] and [communicates with said] transmits data to the intermittent power-on type mobile station by radio while [controlling said] the intermittent power-on type mobile station[, in said] of the radio communications system[; said communications system accommodating] is ready to receive data from said base station as a result of control by the individual beacon signal, said intermittent power-on type mobile station [which shifts] being operable to shift to its power-on state synchronously with a received timing of said beacon signal, with a [constant] fixed period of time after [a] reception of said beacon signal being defined as a data receive-ready period[;], wherein said base station [comprising a] comprises priority transmitting means for [preferentially] transmitting said data [over transmission data for a] in preference to the normal mobile station [in] assuming a normally powered-on state [when] if said data to be transmitted to said intermittent power-on type mobile station exists during said data receive-ready period [of said intermittent power-on type mobile station without any need to shorten an interval of occurrence of said beacon signal].

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6. (Twice Amended) A base station [in] for a radio communications system [wherein] which accommodates an intermittent power-on type mobile station and in which said base station emanates [a] successive beacon [signal] signals to [an] the intermittent power-on type mobile station [at intervals] and [communicates with said] transmits data to the intermittent power-on type mobile

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station by radio while [controlling] said intermittent power-on mobile station is ready to receive data from said base station as a result of control by the individual beacon signal, [in said radio communications system; said communications system accommodating said] the intermittent power-on type mobile station [which shifts] being operable to shift to its power-on state synchronously with a received timing of said beacon signal, with a [constant] fixed period of time after [a] reception of said beacon signal being defined as a data receive-ready period[;].

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wherein said base station [comprising] comprises time extension reporting means for, if data is to be transmitted continuously beyond said data receive-ready period of said intermittent power-on type mobile station, originally reporting to the intermittent power-on type mobile station, as time extension information that data must be received beyond said data receive-ready period[, to the intermittent power-on type mobile station, when data is transmitted continuously beyond said data receive-ready period of said intermittent power-on type mobile station].

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10. (Twice Amended) A base station [in] for a radio communications system [wherein] which accommodates an intermittent power-on type mobile station and in which said base station emanates [a] successive beacon [signal] signals to [an] the intermittent power-on type mobile station [at regular intervals and communicates with said] transmits data to the intermittent power-on type mobile station by radio while [controlling] said intermittent power-on type mobile station is ready to receive data from said base station, as a result of control by the individual beacon signal, [in said radio communications system; said communications system accommodating said] the intermittent power-on type mobile station [which shifts] being operable to shift to its power-on state

synchronously with a received timing of said beacon signal, with a [constant] fixed period of time after [a] reception of said beacon signal being defined as a data receive-ready period[;], said base station comprising:

transmission information reporting means for [previously] originally reporting to the intermittent power-on type mobile station of transmission data regarding data to be transmitted to [said] the intermittent power-on type mobile station, [to said intermittent power-on type mobile station,] during said data receive-ready period [of said intermittent power-on type mobile station];

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and

overtime transmitting means for transmitting said data within a predetermined period of time after [a completion] the lapse of said data receive-ready period [when] if part of pieces of data included in said transmission information has been left untransmitted [cannot be transmitted] during said data receive-ready period.

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14. (Twice Amended) An intermittent power-on type mobile station [which] for a radio communications system in which a base station emanates successive beacon signals to said intermittent power-on type mobile station and in which said intermittent power-on type mobile station shifts to its power-on state [in synchronous] synchronously with a received timing of [a] the individual beacon signal [emanated regularly from a base station], with a [constant] fixed period after [a] reception of said beacon signal being defined as a data receive-ready period, [comprising:] wherein said intermittent power-on type mobile station includes power supply control means, responsive to time extension information originally emanated by the base station and regards that

data must be received the base station beyond said data receive-ready period, for sustaining its power-on state [until] beyond said data receive-ready period to extend said data receive-ready period until all pieces of data continuously transmitted from said base station [are] have been received [when time extension information regarding that data must be received beyond said data receive-ready period has been received from said base station, and then extending said data receive-ready period].

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15. (Twice Amended) An intermittent power-on type mobile station [which] for a radio communications system in which a base station emanates successive beacon signals to said intermittent power-on type mobile station and in which said intermittent power-on type mobile station shifts to its power-on state synchronously with a received timing of [a] the individual beacon signal [emanated regularly from a base station], with a [constant] fixed period after [a] reception of said beacon signal being defined as a data receive-ready period, [comprising:]

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wherein said intermittent power-on type mobile station includes power supply control means, responsive to transmission information originally reported by the base station during said data receive-ready period, for [previously reporting transmission information regarding data to be transmitted from said base station during said data receive-ready period, from said base station, and then] sustaining its power-on state to extend said data receive-ready period by a predetermined period of time if part of pieces of [when] data included in said transmission information [cannot be received] has been left unreceived during said data receive-ready period [so as to extend said data receive-ready period by a predetermined period of time].